PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)				
(F	PCT Article 36 and Rule 70)	REC'D 1 AUG 2005		
Applicant's or agent's file reference NO 7479MO	OR FURTHER ACTION	See Form PCT//PEA/410		
	nternational filing date <i>(day/month/year)</i> 6.06.2004	Priority date (day/month/year) 23.06.2003		
International Patent Classification (IPC) or national classification and IPC A23L1/305, A23L1/29, A23K1/16, A23K1/18, A61K38/00, A61K31/195				
Applicant NESTEC S.A.				
	inary examination report, established by th hitted to the applicant according to Article 3			
2. This REPORT consists of a total of 6	2. This REPORT consists of a total of 6 sheets, including this cover sheet.			
3. This report is also accompanied by A	NNEXES, comprising:			
a. 🗆 sent to the applicant and to th	ne International Bureau) a total of sheets,	as follows:		
and/or sheets containing	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).			
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
sequence listing and/or tables	eau only) a total of (indicate type and numb related thereto, in computer readable for sting (see Section 802 of the Administrative	per of electronic carrier(s)) , containing a m only, as indicated in the Supplemental e Instructions).		
4. This report contains indications relat	I. This report contains indications relating to the following items:			
☐ Box No. I Basis of the opinion	n			
☐ Box No. II Priority				
☐ Box No. III Non-establishmen	t of opinion with regard to novelty, inventive	e step and industrial applicability		
☐ Box No. IV Lack of unity of inv	vention			
	⊠ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
☐ Box No. VI Certain document	s cited			
☐ Box No. VII Certain defects in	the international application			
☐ Box No. VIII Certain observation	ns on the international application			
Date of submission of the demand	Date of completion of	this report		
19.01.2005	10.08.2005			
Name and mailing address of the international preliminary examining authority:	Authorized Officer	Personal Personal		
European Patent Office				
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656	epmu d Couzy, F			
Fax: +49 89 2399 - 4465	Telephone No. +49 89	2399-		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/006469

_	Box No. I	Basis of the report	
1.	. With regard to the language , this report is based on the international application in the language in which it valid filed, unless otherwise indicated under this item.		
	☐ This rewhich	eport is based on translations from the original language into the following language , is the language of a translation furnished for the purposes of:	
	🗆 pu	ernational search (under Rules 12.3 and 23.1(b)) blication of the international application (under Rule 12.4) ernational preliminary examination (under Rules 55.2 and/or 55.3)	
2.	 With regard to the elements* of the international application, this report is based on (replacement sheets who have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): 		
	Descriptio	n, Pages	
	1-12	as originally filed	
	Claims, Nu	ımbers	
	1-14	as originally filed	
Drawings, Sheets		Sheets	
	1	as originally filed	
	□ a sec	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing	
3	. 🗆 The a	amendments have resulted in the cancellation of:	
		e description, pages e claims, Nos.	
	□ th	e drawings, sheets/figs e sequence listing <i>(specify)</i> :	
		ny table(s) related to sequence listing (specify):	
4	had not b	report has been established as if (some of) the amendments annexed to this report and listed below een made, since they have been considered to go beyond the disclosure as filed, as indicated in the ental Box (Rule 70.2(c)).	
		e description, pages e claims, Nos.	
	□ th	e drawings, sheets/figs	
		ne sequence listing <i>(specify)</i> : ny table(s) related to sequence listing <i>(specify)</i> :	
	* If i	tem 4 applies, some or all of these sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/006469

	ox No. III Non-establishment oplicability	f opinion with regard to novelty, inventive step and industrial	
I. Th	e questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-vious), or to be industrially applicable have not been examined in respect of:		
	the entire international applicati	on,	
×	claims Nos. 12-14 (IA)		
	because:		
×	the said international application, or the said claims Nos. 12-14 (IA) relate to the following subject matter which does not require an international preliminary examination (specify):		
	see separate sheet		
	the description, claims or draw that no meaningful opinion cou	ngs (indicate particular elements below) or said claims Nos. are so unclear ld be formed (specify):	
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.		
×	no international search report has been established for the said claims Nos. 12-14 (IA)		
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Ar C of the Administrative Instructions in that:		
	the written form	☐ has not been furnished	
		☐ does not comply with the standard	
	the computer readable form	☐ has not been furnished	
		☐ does not comply with the standard	
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions		
	See separate sheet for further	details	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/006469

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Î

Novelty (N)

Yes: Claims

1-6, 8-25

No: Claims

1-14

Inventive step (IS)

Yes: Claims

Claims

1-6, 8-21, 24-25

No:

1-14

Industrial applicability (IA)

Yes: Claims

1-11

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

III.1 Claims 12-14 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT). In fact, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

V.1 Reference is made to the following documents:

D1: EP-A-1 281 325 (NESTLE SA) 5 February 2003

D2: US 2001/031723 A1 (BALLEVRE OLIVIER ET AL) 18 October 2001

D3: WO 99/14231 A (ZUCHT HANS DIETER ;LIEPKE CORNELIA (DE); FORSSMANN WOLF GEORG (DE)) 25 March 1999

D4: GB-A-1 159 615 (VIVONEX CORPORATION) 30 July 1969

D5: DE 100 24 746 A (IH BRT N V) 22 November 2001

D6: WO 00/22945 A (SCHIFFRIN EDUARDO; DONNET ANNE (CH); NESTLE SA (CH); VIDAL KARINE) 27 April 2000

D7: US 2003/008016 A1 (ZIVKOVIC D DOROTHEA ET AL) 9 January 2003

D8: US-A-5 322 836 (SHIMAMURA SEIICHI ET AL) 21 June 1994

D9: US-A-5 531 988 (PAUL STEPHEN M) 2 July 1996

D10: WO 01/58283 A (FRIESLAND BRANDS BV ;LEEUWEN PAULUS ALUISIUS MARIE (NL); GLAS CORN) 16 August 2001

D11: US-B-6 180 0991 (PAUL STEPHEN M) 30 January 2001

D12: DATABASE WPI Week 2002 Derwent Publications Ltd., London, GB; AN 2002-436267 XP002300655 CHEN Y, HAO Y, KONG F: "Health oral liquid" & CN 1 181 244

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/EP2004/006469

A (KONGYUAN BIOLOGICAL HEALTH GEN PLANT HUB) 13 May 1998

V.2 Novelty and inventive step

Abundant prior art describes compositions comprising amino acids, either as such or as peptides or proteins, for the regulation of the gut flora and/or of bacterial translocation and/or of gut immunity and/or for the prevention of allergies. It is also noted that in claims 5 and 11, where amounts of amino acids are specified, these are regrettably specified in terms of daily dosages to be administered, and not of the amount which is indeed present in the composition. That unclarity (Art. 6 PCT) results in the fact that these amounts can not be used to characterize the compositions themselves. A further general point to note is that since therapeutic compositions comprising amino acids according to claims 1 and 2 are known (e.g., see below), and since the concentrations of the amino acids are not clearly defined, it appears unlikely that the applicant will be able to establish novelty of the compositions, at least under the European Patent Convention. And a last general point is that, should the applicant decide to restrict the scope of the claims, unity might become an issue.

More specifically, the subject-matter of claims 1-14 is not new over D1 (the amino acid composition of whey protein is known, and it includes the amino acids specified in e.g., claim 2), that of claims 1-6 not new over D2, that of claims 1-6 and 12 over D3, of claims 1-5 over D4, of claims 6, 12, and 14 over D5, of claims 6, 8, 10, 12-14 over D6, of claims 6, 12 and 14 over D7, of claim 6 over D8, of claim over D9, of claims 7, 13-14 over D10, of claims 6 and 12 over D11, and of claim 14 over D12 (Art. 33 (2) PCT).

V.3 The subject-matter of claims 1-11 is industrially applicable in the sense of Art. 33 (4) PCT.